## IN THE CLAIMS:

Please cancel Claims 1-10 and add new claims 11-25, as follows:

## AMENDMENTS TO THE CLAIMS:

## 1-10 (canceled)

11. (New) A linear compressor unit, comprising: an electromagnetic alternating field surrounding at least a portion of a cylinder;

a magnet located in said electromagnetic alternating field in said cylinder, said magnet displaceable back and forth in said electromagnetic alternating field;

a piston located in said electromagnetic alternating field in said cylinder drivingly connected to said magnet;

a buffer volume;

a module casing which encloses said cylinder and said buffer volume;

said cylinder mounted in said module casing so that said cylinder can oscillate in said module casing;

said module casing including an inlet passage for the medium to be compressed;

said cylinder including an inlet opening lying opposite said inlet passage without making contact therewith;

a passage to said buffer volume formed between said inlet opening and said inlet passage; and

at least one sound restrictor element located in said buffer volume passage.

12. (New) The linear compressor unit according to claim 11, including said sound restrictor element having a pair of intermeshing walls, a first set of walls attached. to said module casing and a second set of walls attached to said cylinder.

- 13. (New) The linear compressor unit according to claim 12, including said intermeshing walls are formed in a ring shape and surround at least one of said inlet opening and said inlet passage.
- 14. (New) The linear compressor unit according to claim 11, including said cylinder including a chamber for receiving said piston and at least one sound-dampening chamber through which said medium to be compressed flows, said sound-dampening chamber arranged between said inlet opening of said chamber and said piston chamber.
- 15. (New) The linear compressor unit according to claim 11, including at least one sound-dampening chamber through which said medium to be compressed flows located in said inlet passage of said module casing.
- 16. (New) The linear compressor unit according to claim 15, including said sound-dampening chamber is formed in a flat-cylindrical shape with a cylindrical axis opening and said inlet passage of said module casing is substantially aligned therewith.
- 17. (New) The linear compressor unit according to claim 11, said cylinder mounted for oscillation in said module casing by an cylinder outlet pipe.
- 18. (New) The linear compressor unit according to claim 17, including said outlet pipe is formed helically around said cylinder.

- 19. (New) The linear compressor unit according to claim 11, including said magnet is formed as an axial extension of said piston.
- 20. (New) The linear compressor unit according to claim 11, including said magnet is formed as a ring shaped body at least partially surrounding said piston and connected thereto at one end of said piston.
- 21. (New) A linear compressor unit, comprising: an electromagnetic alternating field surrounding at least a portion of a cylinder;

a magnet located in said electromagnetic alternating field in said cylinder, said magnet displaceable back and forth in said electromagnetic alternating field;

a piston located in said electromagnetic alternating field in said cylinder drivingly connected to said magnet;

a buffer volume;

a module casing which encloses said cylinder and said buffer volume;

said cylinder mounted in said module casing so that said cylinder can oscillate in said module casing;

said module casing including an inlet passage for the medium to be compressed and a sound-dampening chamber through which said medium to be compressed flows located in said inlet passage;

said cylinder including an inlet opening lying opposite said inlet passage without making contact therewith, said cylinder including a chamber for receiving said piston and a sound-dampening chamber through which said medium to be compressed flows, said sound-dampening chamber arranged

between said inlet opening of said chamber and said piston chamber;

a passage to said buffer volume formed between said inlet opening and said inlet passage; and

at least one sound restrictor element located in said buffer volume passage, said sound restrictor element having a pair of intermeshing walls, a first set of walls attached to said module casing and a second set of walls attached to said cylinder, said intermeshing walls are formed in a ring shape and surround at least one of said inlet opening and said inlet passage.

- 22. (New) The linear compressor unit according to claim 21, including said sound-dampening chamber is formed in a flat-cylindrical shape with a cylindrical axis opening and said inlet passage of said module casing is substantially aligned therewith.
- 23. (New) The linear compressor unit according to claim 11, said cylinder mounted for oscillation in said module casing by an cylinder outlet pipe formed helically around said cylinder.
- 24. (New) The linear compressor unit according to claim 21, including said magnet is formed as an axial extension of said piston.
- 25. (New) The linear compressor unit according to claim 21, including said magnet is formed as a ring shaped body at least partially surrounding said piston and connected thereto at one end of said piston.